	Application No.	Applicant(s)	
Notice of Allowability	10/651,696	ZANZIG ET AL.	
	Examiner	Art Unit	
	Rip A. Lee	1713	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE OFFICE OFF	OR REMAINS) CLOSED it or other appropriate comm GHTS. This application is	n this application. If not include unication will be mailed in due	led course. THIS
1. This communication is responsive to			
2. ⊠ The allowed claim(s) is/are <u>1-14</u> .			
3. The drawings filed on are accepted by the Examiner	-		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.3 each sheet. Replacement sheet(s) should be labeled as such in the 7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F. 	been received. been received in Application to the suments have been received of this communication to file ENT of this application. Itted. Note the attached EX is reason(s) why the oath of the submitted. On's Patent Drawing Review Amendment / Comment of the header according to 37 Clist of BIOLOGICAL MAT	on No * Indicate the control of the drawings in the front (not the FR 1.121(d). End in this national stage application is deficient. ** ** ** ** ** ** ** ** **	quirements NOTICE OF
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 08-29-2003 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview S Paper No. 3), 7. ☑ Examiner's	nformal Patent Application (PT ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Alli 	·

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Henry C. Young, Jr. on January 19, 2005.

Claim 1, line 9 delete "correspondingly,"

Claim 1, line 13 replace "and" with "or"

Claim 1, line 19 delete "(e.g. silanol groups)"

Claim 1, line 22 insert "silica or" between "precipitated" and "silica-containing"

Claim 1, line 27 delete "(e.g. silanol groups)"

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claim 2, line 5 delete "correspondingly,"

claim 2, line 11 delete "(e.g"

claim 2, line 12 delete "silanol groups)"

claim 2, line 16 replace "35" with "30"

claim 2, line 16 replace "95" with "90"

claim 2, line 19 delete "(e.g. silanol groups)"

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claim 5, line 5 delete "correspondingly,"

claim 5, line 13 "(e.g. silanol groups)"

claim 5, line 21 "(e.g. silanol groups)"

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Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 1-14 are allowed over the closest reference, KR 2001-17712, U.S. Patent No. 5,916,957 to Itoh *et al.*, and U.S. Patent No. 6,090,880 to Zimmer *et al.*

The present invention is drawn to a tire having at least one component comprised of a rubber composition which comprises (A) 100 phr of elastomers, (B) about 25-95 phr of reinforcing filler, and (C) bis(triethoxysilylpropyl)polysulfide coupling agent wherein the polysulfide bridge contains an average of 2 to 2.6 sulfur atoms. Specifically, elastomer (A) is made of (1) about 10-95 phr of aqueous emulsion polymerization derived styrene/butadiene copolymer which contains pendant hydroxyl groups and has a bound styrene content of about 15-28 % and (2) about 5-90 phr of tin-coupled organic solvent polymerization derived elastomer. The reinforcing filler (B) is comprised of (1) about 35-75 phr of carbon black and about 5-20 phr of precipitated silica or silicacontaining carbon black, or (2) about 5-30 phr of carbon black and about 35-90 phr of precipitated silica or silica-containing carbon black.

KR 2001-17712 describes a tire treads composition comprised of 50-95 pw of solution-polymerized, silicon-coupled styrene/butadiene rubber, 5-40 pw of solution polymerized, tin-coupled styrene/butadiene rubber, 0-30 pw of butadiene rubber, 30-70 pw of carbon black, 20-60 pw of silica, and 5-10 pw of silane coupling agent. The reference does not teach or suggest use of styrene/butadiene copolymer that contains pendant hydroxyl groups.

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Itoh *et al.* discloses tire tread composition comprised of organic solution polymerized styrene/isoprene rubber having a bound styrene content of 5-25 % and a terminal-modified copolymer prepared by reacting polymer with an organotin compound. The composition may further comprise an emulsion polymerized styrene/butadiene rubber. The reference does not teach or suggest use of styrene/butadiene copolymer that contains pendant hydroxyl groups.

Zimmer *et al.* teaches a rubber composition comprised of 50-80 phr of tin-coupled styrene/butadiene or styrene/isoprene elastomer. The composition may further comprise emulsion polymerized styrene/butadiene rubber. The reference does not teach or suggest use of styrene/butadiene copolymer that contains pendant hydroxyl groups.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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The prior art made of record but not relied upon is considered pertinent to the

Applicant's disclosure.

U.S. Patent No. 6,548,578 to Pawlikowski discloses a starch / emulsion styrene

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butadiene copolymer. As shown in the figure in column 1, the starch units, and hence,

the overall polymer, would contain pendant hydroxyl groups.

U.S. 2002/0120052 to Wendling et al. discloses a quaterpolymer based on

conjugated diene, vinyl substituted aromatic compounds, olefinically unsaturated nitriles

and monomers containing hydroxyl or epoxy groups.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached at (571)272-1114. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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January 19, 2005

DAVID W. WU SUPERVISORY PATENT EXAMINER TECHNICLOCK CENTED 1700

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